

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 03/077262 A1

(51) International Patent Classification⁷:

G21C 3/62

(21) International Application Number: PCT/BE02/00030
11 Sep 04

(22) International Filing Date: 11 March 2002 (11.03.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **BELGO-NUCLEAIRE SA [BE/BE]**; Avenue Ariane 4, B-1200 Brussels (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VANDERGHEYNST, Alain [BE/BE]**; Rue de l'Yser 40, B-7370 Dour (BE). **PELCKMANS, Eduard [BE/BE]**; Terlo 24, B-2460 Kasterlee (BE). **DE VLEESCHHAUWER, Marc [BE/BE]**; Kwakkelstraat, 9, B-2480 Dessel (BE).

(74) Agents: **CLAEYS, Pierre et al.**; Gevers & Vander Haeghen, Holidaystraat, 5, B-1831 Diegem (BE).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

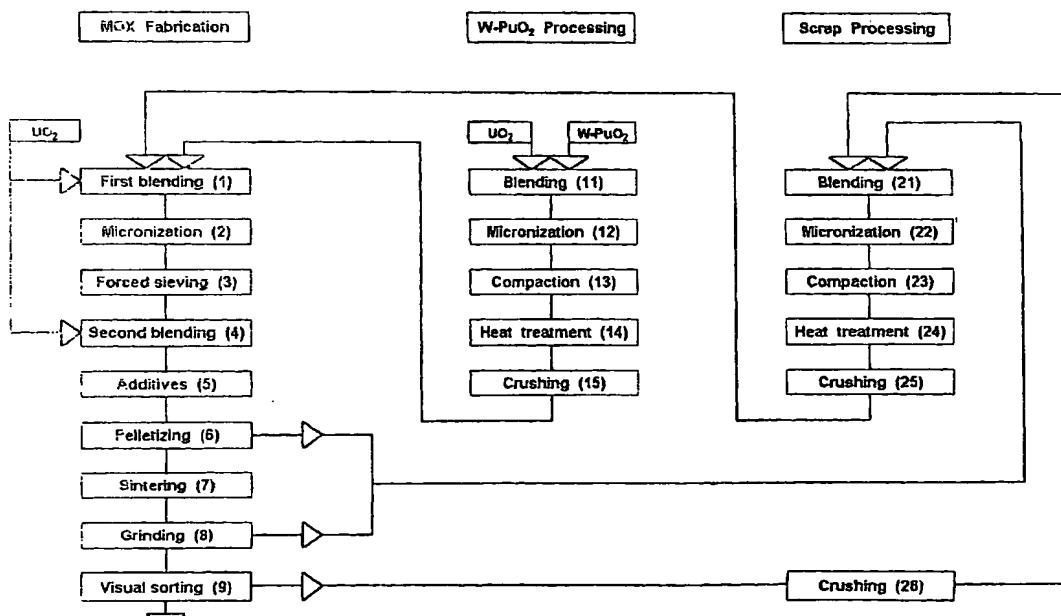
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOX FUEL FABRICATION PROCESS FROM WEAPON PLUTONIUM FEED



WO 03/077262 A1

(57) Abstract: Process for fabrication MOX fuel from weapon originating plutonium oxide (W-PuO₂), including a process for fabricating MOX fuel pellets, a dry processing of W-PuO₂ powder, and a dry processing of MOX fabrication scrap.